

CLAIM AMENDMENTS

This listing of claims will replace all prior versions and listings of claims in the application.

What is claimed is:

1. (currently amended) An optical lens comprising at least one holographic optical element and at least one focusing element, said holographic optical element characterized by an interference fringe pattern having a finite ray acceptance angle range that diffracts up to 100% of incoming light when the Bragg condition is met, said holographic optical element further characterized as possessing substantially neutral focusing power, wherein said optical lens is a multifocal lens that allows a wearer to switch between optical powers.
2. (previously presented) An optical lens according to claim 1 wherein said optical lens is biocompatible.
3. (previously presented) An optical lens according to claim 1 wherein said optical lens is a contact lens.
4. (previously presented) An optical lens according to claim 1 wherein said optical lens is a spectacle lens.
5. (previously presented) An optical lens according to claim 1 wherein said optical lens is an intraocular lens.
6. (previously presented) An optical lens according to claim 1 wherein said holographic optical lens element is a transmission volume holographic optical lens element.
7. (previously presented) An optical lens according to claim 1 wherein said holographic optical lens element is a reflective holographic optical lens element.